



Tecumseh

Performance Data Sheet

VSCF518ZXT

General Information

Model	VSCF518ZXT	Refrigerant	R-404A
Test Condition	ARI	Performance Test Voltage	230V 3~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	Motor Type	3PH

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)						
	80	90	100	110	120	130	140
-40	Btu/h	15400	14400	13500	12400	11400	10200
	Watts	3040	3220	3430	3690	4000	4380
	Amps	12.8	13.1	13.5	14.1	15.0	16.5
	Lb/h	239	234	231	229	229	230
-35	Btu/h	17600	16500	15400	14300	13000	11700
	Watts	3190	3370	3580	3830	4130	4500
	Amps	13.3	13.6	14.0	14.5	15.3	16.7
	Lb/h	269	265	263	262	262	263
-30	Btu/h	20000	18800	17600	16300	14900	13400
	Watts	3340	3530	3740	3990	4280	4640
	Amps	13.8	14.1	14.4	14.8	15.6	16.9
	Lb/h	304	301	300	299	299	299
-25	Btu/h	22700	21400	19900	18500	16900	15200
	Watts	3490	3690	3910	4160	4450	4800
	Amps	14.1	14.4	14.7	15.1	15.9	17.0
	Lb/h	346	343	342	341	340	338
-20	Btu/h	25800	24200	22600	20900	19100	17200
	Watts	3630	3850	4080	4340	4640	4990
	Amps	14.4	14.8	15.1	15.5	16.1	17.2
	Lb/h	393	390	389	388	387	385
-15	Btu/h	29100	27300	25400	23500	21500	19300
	Watts	3780	4010	4260	4530	4840	5190
	Amps	14.7	15.1	15.4	15.8	16.4	17.5
	Lb/h	446	443	442	440	438	435
-10	Btu/h	32800	30800	28600	26400	24100	21700
	Watts	3910	4170	4440	4720	5040	5400
	Amps	14.9	15.4	15.7	16.1	16.7	17.7
	Lb/h	505	502	500	498	495	490
-5	Btu/h	36900	34500	32100	29600	27000	24200
	Watts	4020	4320	4610	4920	5250	5620
	Amps	15.2	15.7	16.1	16.5	17.1	18.1
	Lb/h	570	568	565	561	557	551

0	Btu/h	41300	38600	35900	33000	30100	27000	23800
	Watts	4130	4450	4770	5100	5460	5850	6280
	Amps	15.4	16.0	16.5	16.9	17.5	18.5	19.9
	Lb/h	643	639	635	631	625	617	607
5	Btu/h	46200	43100	40000	36800	33500	30100	26400
	Watts	4210	4570	4920	5280	5660	6070	6520
	Amps	15.7	16.4	16.9	17.4	18.0	19.0	20.4
	Lb/h	722	718	713	706	698	689	676
10	Btu/h	51400	48000	44500	40900	37200	33400	29400
	Watts	4260	4660	5060	5450	5860	6300	6770
	Amps	16.1	16.9	17.4	18.0	18.6	19.6	21.0
	Lb/h	808	803	796	788	778	766	751

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	6.368130E+04	2.338886E+01	-1.590682E+01	6.980886E+02
C2	1.434028E+03	-6.989201E+01	-2.763673E-01	1.410103E+01
C3	-3.164445E+02	8.248302E+01	8.918039E-01	-1.485009E+00
C4	1.253925E+01	-1.107621E+00	-1.554854E-03	1.760905E-01
C5	-6.009729E+00	1.445625E+00	6.216760E-03	3.803123E-02
C6	7.872464E-01	-5.505213E-01	-8.525331E-03	1.514396E-02
C7	2.469129E-02	-4.887438E-03	2.106597E-05	2.958467E-04
C8	-5.772070E-02	8.634852E-03	2.631943E-05	-4.786064E-04
C9	-4.127157E-03	-4.312335E-03	-2.611843E-05	-3.128821E-04
C10	-4.022247E-03	2.005231E-03	2.845829E-05	-6.555992E-05

$$\text{Value} = C1 + C2 * \text{Te} + C4 * \text{Te}^2 + C7 * \text{Te}^3 + (C3 + C5 * \text{Te} + C8 * \text{Te}^2) * \text{Tc} + (C6 + C9 * \text{Te}) * \text{Tc}^2 + C10 * \text{Tc}^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature